

What is claimed is:

1. A color filter array having a green filter layer on a substrate wherein the green filter layer comprises
 - 5 a copper phthalocyanine dye having its absorption maximum at a wavelength of 600 to 700 nm, and a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm; and has a transmittance at a wavelength of 450 nm of 5% or less
 - 10 and that at 535 nm of 62% or more.
2. The color filter array having a green filter layer on a substrate according to claim 1, wherein the green filter layer further comprises a pirazolone azo dye showing its absorption maximum at a wavelength of 400 to 500 nm.
- 15 3. The color filter array having a green filter layer on a substrate according to claim 1, wherein the green filter layer further comprises a triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and
- 20 has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.
4. The color filter array having a green filter layer on a substrate according to claim 2, wherein the green filter layer further comprises a triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and
- 25 has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.

5. A color filter array having a green filter layer on a substrate wherein the green filter layer comprises a triallylmethane dye showing its absorption maximum at a wavelength within 5 the range of from 580 to 680 nm, and has a transmittance of 10% or less at 650 nm.
6. A process for producing a color filter array having a green filter layer on a substrate which comprises the step of patterning a photosensitive 10 resin composition comprising a copper phthalocyanine dye having its absorption maximum at a wavelength of 600 to 700 nm, and a pyridone azo dye having its absorption maximum at a wavelength of 400 to 500 nm
- 15 to form the green filter layer having a transmittance at a wavelength of 450 nm of 5% or less and that at 535 nm of 62% or more.
7. The process according to claim 6, wherein the photosensitive resin composition further comprises a 20 pirazolone azo dye showing its absorption maximum at a wavelength of 400 to 500 nm.
8. The process according to claim 6, wherein the photosensitive resin composition further comprises triallylmethane dye showing its absorption maximum at a 25 wavelength within the range of from 580 to 680 nm, and the the green filter layer has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.

9. The process according to claim 7, wherein the photosensitive resin composition further comprises triallylmethane dye showing its absorption maximum at a wavelength within the range of from 580 to 680 nm, and
5 the green filter layer has a transmittance of 5% or less at 450 nm, that of 62% or more at 535 nm and that of 10% or less at 650 nm.